

MANUAL REVISION DATES

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22-2.10 Use “Tract” Cell for English Projects

Use the following procedure to have the text automatically fit itself within the cell:

1. Change the Text Editor Style to “Word Processor”: “Workspace”, “Preferences”, “Text”.
2. Place the “TRACT” cell from the “RW.CEL” library and drop status on it.
3. Select the “Edit Text” command and click on the text in the “TRACT” cell to open the Word Processor.
4. Highlight any of the blank lines in the text box and begin typing.

The text will automatically fit itself within the margins of the “TRACT” cell. If you exceed three lines of text, you may need to adjust the box or move the text accordingly.

If you try to edit the “TRACT” cell without the Word Processor, you will get an “Alert” message. If you wish, you can select “Yes” and edit the cell manually, but the text will not automatically fit itself within the box.

22-2.11 Locate English Levels in Level Display

The following procedures may be helpful in locating the specific level of a r/w design element in an English CADD file:

1. Tentative on the element – a pop-up box will tell you the level name and the file that it's in.
Alternatively, the “Element Information” button can be used. Click on the desired element. The level name and the file that it's in will be displayed in the MicroStation “Message Center”.
2. Look at the beginning of the level name (E_, P_, or S_). This will tell you which filter to look in – Existing, Proposed, or Standard.
3. Once you have selected the appropriate filter in Level Display, the levels will be listed in alphabetical order. Scroll down until you find the level name you are looking for.

22-2.12 Locate English Levels in Level Display-Other Methods

In some instances, the level name or level number of an element is already known. “InfoSnap” is a useful MicroStation tool for obtaining detailed element information, including level numbers: “MDT”, “MDL's”, “InfoSnap”. Tentative on any element and a box containing the element information will be displayed. The InfoSnap tool can be customized to display only the information the user is interested in. To find a level in the Level Display when the level number or level name is known, use the following procedures:

1. In the Level Display, change the level filter to “All Levels”, then highlight the file that contains the level you are searching for.
2. If you know the level number: In the Level Display, click in the box directly below the “Number” column.
3. Type in the number of the level you are looking for and then “Enter”. The level will be displayed.
4. If you know all or part of the level name: In the Level Display, click in the box directly below the “Name” column.
5. Type in all or part of the level name you are looking for and then “Enter”. The levels containing the text you entered will be displayed.

22-3 R/W LEVEL ASSIGNMENTS

OLD

22-3 R/W **METRIC** LEVEL ASSIGNMENTS

NEW

22-4 R/W STANDARD ELEMENT ATTRIBUTES

| DESCRIPTION | FILE | LEVEL | COLOR | STYLE | WEIGHT |
|---|-------------|----------|------------|-------|--------|
| Existing R/W Lines | Strip Map | 30 | - | 0 | 1 |
| Property Lines | Strip Map | 34 | - | 0 | 1 |
| Ownership Dots | Plan Sheets | 34 | - | 1 | 5 |
| Proposed R/W Lines | Strip Map | 31 | - | 7 | 3 |
| Section Lines (Surveyed) | Strip Map | 16 | 2 Green | 3 | 2 |
| Section Lines (Not Surveyed) | Strip Map | 16 | 0 White | 3 | 2 |
| Interior Section Lines (16 th) | Strip Map | 35 | 0 White | 3 | 2 |
| Existing Railroad R/W Lines | Strip Map | 40 | - | 6 | 2 |
| Proposed Easement Lines | Strip Map | 31 or 38 | - | 0 | 3 |
| Proposed Const. Permit Lines | Strip Map | 36 | - | 0 | 3 |
| Federal Government Land Hatching (Spacing: 50 ft (15 m); Angle: 45) | Plan Sheet | 50 | - | 0 | 0 |
| Indian Land Crosshatching (Spacing: 50 ft (15 m), 50 ft (15 m); Angle: 45, -45) | Plan Sheet | 51 | - | 0 | 0 |

22-4 R/W STANDARD ELEMENT ATTRIBUTES

| DESCRIPTION | FILE | LEVEL * | COLOR | STYLE | WEIGHT |
|---|-------------|--------------------|------------|-------|--------|
| Existing R/W Lines | Strip Map | 905 (30) | - | 0 | 1 |
| Property Lines | Strip Map | 920 (34) | - | 0 | 1 |
| Ownership Dots | Plan Sheets | 918 (34) | - | 1 | 5 |
| Proposed R/W Lines | Strip Map | 3028 (31) | - | 7 | 3 |
| Section Lines (Surveyed) | Strip Map | 927 (16) | 2 Green | 3 | 2 |
| Section Lines (Not Surveyed) | Strip Map | 927 (16) | 0 White | 3 | 2 |
| Interior Section Lines (16 th) | Strip Map | 928 (35) | 0 White | 3 | 2 |
| Existing Railroad R/W Lines | Strip Map | 924 (40) | - | 6 | 2 |
| Proposed Easement Lines | Strip Map | 3028 (31 or 38) | - | 0 | 3 |
| Proposed Const. Permit Lines | Strip Map | 3012 (36) | - | 0 | 3 |
| Federal Government Land Hatching (Spacing: 50 ft (15 m); Angle: 45) | Plan Sheet | 3026 (50) | - | 0 | 0 |
| Indian Land Crosshatching (Spacing: 50 ft (15 m), 50 ft (15 m); Angle: 45, -45) | Plan Sheet | 3019 (51) | - | 0 | 0 |

* Levels shown in parenthesis are for metric projects.

22-5 R/W STANDARD REFERENCE FILES

The following are the standard reference files that should be used when developing r/w CADD files:

1. METRWPL.REF. Standard r/w plan sheet, no border. See the MDT CADD Standards Manual for the level symbology associated with this reference file.
2. PLANM.REF. This is the shared road design file from ROSTD that is used to build the border in the r/w plan sheets. See the MDT CADD Standards Manual for the level symbology associated with this reference file.
3. METRWTI.REF. Standard r/w title sheet. See the MDT CADD Standards Manual for the level symbology associated with this reference file.
4. MDEED2.REF. Standard exhibit sheet, with title block in lower right corner, which is used generally.
5. MDEEDLL.REF. Standard exhibit sheet, with title block in lower left corner. Use if the drawing covers the standard placed title block area.
6. MDEEDUL.REF. Standard exhibit sheet, with title block in upper left corner. Use if the other blocks interfere with drawing.

NEW

22-5 R/W STANDARD REFERENCE FILES

The following are the standard reference files that should be used when developing r/w CADD files:

22-5.1 Metric Reference Files

1. METRWPL.REF. Standard r/w plan sheet, no border. See the MDT CADD Standards Manual for the level symbology associated with this reference file.
2. PLANM.REF. This is the shared road design file from ROSTD that is used to build the border in the r/w plan sheets. See the MDT CADD Standards Manual for the level symbology associated with this reference file.
3. METRWTI.REF. Standard r/w title sheet. See the MDT CADD Standards Manual for the level symbology associated with this reference file.
4. MDEED2.REF. Standard exhibit sheet, with title block in lower right corner, which is used generally.
5. MDEEDLL.REF. Standard exhibit sheet, with title block in lower left corner. Use if the drawing covers the standard placed title block area.
6. MDEEDUL.REF. Standard exhibit sheet, with title block in upper left corner. Use if the other blocks interfere with drawing.

22-5.2 English Reference File

Only one standard reference file is used for English projects. This reference file provides the plan border for all r/w and other design section plan sheets. It is equivalent to the Metric Planm.ref file. The information in the additional five standard reference files for Metric projects can be found on standard or 'S' levels for English projects.

1. PLANE.REF. Standard sheet file for English projects. Used to build the border for plan sheets throughout other design sections and within R/W.

22-7 BUILDING ENGLISH CADD FILES

The **CADD Standards Manual** must be utilized throughout the design process. It can be found electronically at “W:\Documentation\CADD_Standards.”

A Contract Plans Book (CPB) will need to be created for the design files comprising the R/W plan set. Instructions for creating a CPB can be found in the **Docuplot Users Manual** located at “W:\Documentation\Docuplot_Users_Manual.”

Note: It's always advisable to consult Right-of-Way prior to printing, given there may be revisions in progress.

MDT has converted from metric to English design units resulting in a change in file development procedures. The following procedures should be used to create English plans.

22-7.1 Building English MicroStation V8 Files With Macro

Macros to create all English r/w design CADD files (except parcel exhibit files) are currently being developed. Instructions for using the English macros will be included once the macros have been completed. Until the macros for English r/w plans are functioning, the files must be created manually, as described below.

22-7.2 Building English MicroStation V8 Files Manually

This process is utilized to ensure that all parameters for building the road design files are compatible with those used for the r/w files. Both road design and r/w files are referenced with each other; therefore, it is important that they are built the same.

22-7.2.1 Strip Map

Create the strip map using the following procedures:

1. Save the road design strip map file as a r/w strip map file following the standard naming convention: “___ROMAP001.dgn”.
2. Open your renamed file in MicroStation.
3. Delete all the active elements in the file.
You can use the “Fence Delete” command or “Select All” from the “Edit” menu then delete.
4. Reference the road design strip map file back in. Use logical name “rdmap1”. Attach any additional strip map files as needed such as photogrammetry/survey files, etc.
5. Begin placement of found and unfound section lines, existing r/w & easement lines, existing found property pins and monuments, railroad r/w lines, property lines, county road easements, etc. in this file as necessary information becomes available. Refer to Chapter 23 — Preliminary Plan Preparation.
6. Set up the file as desired. Compress file and save settings.
7. Send file to DMS (Document Management System).

22-7.2.2 Plan Sheets

Create plan sheets using the following procedures:

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1. Save the road design plan sheet file as a r/w plan sheet file following the standard naming convention: “____ROPLN001.dgn”.
 2. Open your renamed file in MicroStation.
 3. Delete all the active elements in the file. You can use the “Fence Delete” command or “Select All” from the “Edit” menu then delete.
 4. Reference the road design plan sheet file back in for each sheet matrix used. Use logical names “rdpln1”, “rdpln2”, “rdpln3”.
 5. In the “Reference Files” window, “Display”, “Snap”, & “Locate” should be on for every reference file.
 6. In the Level Display, change the level filter to “All Levels”, then highlight the SHT reference file. The level filters are located in a drop-down menu in the top portion of the Level Display.
 7. Right-click in the Level Display and select the “All Off” command – this will turn off all levels in the SHT file.
 8. In the Level Display, change the level filter to “RWPLN”. Make sure the SHT reference file is still highlighted.
 9. Right-click in the Level Display and select the “All On” command – this will turn on the necessary levels in the SHT file to create r/w plan sheets.
 10. Place a fence around all sheet borders to be used. Clip bind reference file “sht” to trim extra information from view: “Tools”, “Clip Boundary”.
 11. Detach any profile files: “Tools”, “Detach”. This is a good time to clean up the reference files. You may identify duplicate or unnecessary reference files and/or want to revise logical names.
 12. Particular reference files need to be moved to the center of the r/w plan sheets. They can be moved individually or all at once. Necessary files include road design plan files and all strip map files such as road design, photogrammetry, survey, traffic, etc. Choose the desired files from the “Reference File” window, select the “Tools”, “Move” command, then type “DL=0,-460” in the command window and “Enter”.
 13. Attach the plan sheet data field cell “PLNDF” from the “RW.CEL” library and fill in as much information as possible in the data fields. Use the upper left corner of the plan sheet border to place the cell. This cells contents will need to be included for each plan sheet matrix. (Use the PE number in place of the r/w ID until Federal funding has been approved establishing the r/w ID. The project number is shown as a combination of the control number and agreement number.) To save effort, place the cell once, fill in all the information, and then copy it to the other sheet matrix positions.
 14. Use the “Drop Complex Status” command on each “mtpldf” cell after every sheet matrix is complete.
 15. All strip map reference files need to be clipped using the purple outline located on level 10518 as a guide. Your clip line may vary from the purple outline to avoid clipping a centerline station in half or to clip at an angle perpendicular to the centerline in a curve.
 16. Clip bind the road design plan sheet at the orange outline located on level 10517. Where the begin or end notes are shown, adjust the fence to clip off the leader lines designating information included in the profile view.
 17. Reference the r/w strip map file one (1) time for each sheet matrix used. Use logical names “romap1”, “romap2”, “romap3”. The r/w strip maps must be positioned and clipped exactly as the other strip maps for each file that needs to be attached.
 18. Turn on the 7-line ownership chart (levels 10515 and 10516) if and when needed.
 19. The levels should be turned on or off in the reference files, as specified below. This does depend on proper design by the R/W Designer and Road Designer:
 - a. Active Design Plane:

Turn OFF - 10523 or 10524 (Scale), 10517, 10518

- b. R/W Strip Map ("romap1", "romap2", "romap3"):
Turn ON - 905, 915, 920, 921, 924, 925, 926, 927, 928, 3004, 3005, 3012, *3014, *3015, *3016, *3017, *3018, 3028, & 3030
- c. RD Strip Map ("rdmap1", "rdmap2", "rdmap3"):
Turn ON - *Design C/L
*Design C/L Curve Data, Annotation
Topography & Topography Text
Culvert , Irrigation Feature, Storm Drainage, Bridge - New
Approaches - New
Alternate & Side Street C/L
Alternate & Side Street C/L Curve Data & Annotation
New Guardrail
New Sidewalk
New Curb & Gutter
*Construction Limits
Wetland Boundary
Wetland Hatching
Wetland Impacts Boundary
Wetland Impacts Cross Hatching
- d. RD Plan Sheet ("rdpln1", "rdpln2", "rdpln3"):
Turn ON - Begin/End Project Note & Leader

**Note: Depends on whether r/w is being designed using copied preliminary construction limits or final Road Design construction limits.*

20. Send files to DMS (Document Management System).

22-7.2.3 Title Sheet

Create the title sheet using the following procedures:

1. Open MicroStation to the “MicroStation Manager” dialog window.
2. Create a new file (“File”, “New”). In the “Create Design File” window, use the select button to choose the “seedeng.dgn” file. Enter the title sheet file name following the standard naming convention: “_ _ _ ROTTL001.dgn”.
3. Open the new r/w title sheet file.
4. Attach the English sheet border: “MTSTD:PLANE.REF”. Use logical name “sht”. If this reference file does not reference in the appropriate area, you may have to move and perhaps scale the reference file to appear correctly.
5. In the Level Display, change the level filter to “All Levels”, then highlight the SHT reference file. The level filters are located in a drop-down menu in the top portion of the Level Display.
6. Right-click in the Level Display and select the “All Off” command – this will turn off all levels in the SHT file.
7. In the Level Display, change the level filter to “RWTTT”. Make sure the SHT reference file is still highlighted.
8. Right-click in the Level Display and select the “All On” command – this will turn on the necessary levels in the SHT file to create the r/w Title Sheet .
9. Attach the road design title sheet file. Use logical name “rdttl”. If the road design title sheet file comes in at the location of the third file matrix, the reference file must be moved to the first (bottom) sheet matrix.

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10. The project location arrow from the road design title sheet needs to be copied. Turn off level 10143 ("State Map") of the "sht" reference file. Place a fence around the location arrow and "THIS PROJECT" text. Copy the fence contents to the same location and to active level 3035. Turn level 10143 back on.
 11. Attach the title sheet data field cell "TTLDF" from the "RW.CEL" library and fill in as much information as possible in the data fields including the r/w ID, designation, project no., sheet nos., project length, County, associated project agreement no. (see Item a.), related project nos. (see Item b.), etc. Use the upper left corner of the title sheet border to place the cell. Use the PE number in place of the r/w ID until Federal funding has been approved establishing the r/w ID. The project number is shown as a combination of the control number and agreement number. Project and agreement numbers are defined as follows:
 - a. Associated Project Agreement Number. Usually, the PE number of the project.
 - b. Related Project Number. The project numbers of all existing r/w plans used to place the existing r/w.
 13. Move and clip the "rdttl" reference file to best fit the "County Location Map" and "Begin/End Project" text contents within the blue dashed boundary line on level 10537 in the "sht" file ("Tools", "Move" and "Tools", "Clip Boundary"). Additional information may need to be added to the "County Location Map" such as section numbers for each section the project roadway enters, township and range indication, town names main roadways lead to, etc.
 14. Turn all active levels on. In the "sht" reference file, turn off levels 10537 and 10539 (if not a limited access project).
 15. Place a fence around the bottom sheet border. Clip bind reference file "sht" to trim extra information from view: "Tools", "Clip Boundary".
 16. Send file to DMS (Document Management System).

22-7.2.4 Ownership Sheet

The ownership sheet is placed after the title sheet within the r/w plan set. It consists of ownership names, addresses and areas. Ownerships can be placed at the top of the plan sheets or on a separate ownership sheet. If there are more than seven total ownerships on the project, they should be shown on an ownership sheet. Create the ownership sheet as follows:

1. Save a plan sheet file as an ownership file following the standard naming convention: "_ _ _ _ROOWN001.dgn".
2. Detach all the reference files except "MTSTD:PLANE.REF" ("sht").
3. Delete all active elements inside the yellow plan sheet border. Do not delete the information in the upper right and lower right corners of the border.
4. In the Level Display, change the level filter to "All Levels", then highlight the SHT reference file. The level filters are located in a drop-down menu in the top portion of the Level Display.
5. Right-click in the Level Display and select the "All Off" command – this will turn off all levels in the SHT file.
6. In the Level Display, change the level filter to "RWOWN". Make sure the SHT reference file is still highlighted.
7. Right-click in the Level Display and select the "All On" command – this will turn on the necessary levels in the SHT file to create a r/w Ownership Sheet .
8. Attach the ownership chart data field cell "OWNCHART" from the "RW.CEL" library. Use the upper left corner of the ownership sheet border to place the cell.
9. To place the "ASCII Files" note, use cell "crdgpk". Use the upper left corner of the ownership sheet border to place the cell.
10. If desired, clip unwanted lines of the ownership chart: "Tools", "Clip Mask". The clip can be

removed at any time if more lines are needed: "Tools", "Delete Clip".

11. If this is a state plane coordinate project, place cell "spcnote" in the lower left portion of the sheet.
12. Send file to DMS (Document Management System).

22-7.2.5 Area File

This file should be used for calculation of all areas. It provides a record of how the areas were calculated and shading shown on exhibits. Create the area file as follows:

1. Save the r/w strip map file as the area file following the standard naming convention: " _ _ _ _ROARE001.dgn".
2. Delete all the active elements in the file. You can use the "Fence Delete" command or "Select All" from the "Edit" menu, then delete.
3. Reference the strip map file back in. Use the logical name "romap".

22-7.2.6 Creating Areas

Area shapes need to be made for each parcel for the net r/w, existing easement, construction permit and easement areas. Put the shapes on levels 3201-3300; it is beneficial to put the net r/w and existing easement area shapes on a level that corresponds with the parcel number shown as two different colors. Construction permit areas should all be put on an unused level that does not correspond to any parcel number. This applies for easement areas as well. If you are unable to show the appropriate shading on the exhibit, you will have to adjust the levels. Create areas using the following procedures:

1. Use the "Fence" command to copy the lines making up the border of the area to a workable location.
2. Delete unnecessary elements and modify the lines using the "Extend Two Elements to Intersection" and/or "Extend Element to Intersection" commands to create a border.
3. Create a complex shape. Use the "Create Complex Shape" command. The fill type must be "Opaque" and the fill color used must be "Color 32-47".
4. Move the shape to its exact original position using tentative snap. The "Use Fence" option should not be selected. Delete all additional elements within the fence that may have been copied in Step 1.
5. The area shapes created in the area file are used to provide area calculations for the ownership sheet. Use the "Measure Area" command. The method should be "Element" (do not use "Flood").
6. Repeat steps 1 thru 5 for each area to be created.
7. Send file to DMS (Document Management System).

22-7.2.7 Master Exhibit Files

Create master exhibit files as follows:

1. In the r/w plan sheet, select "File", "Save Settings", then "File", "Compress Design".
2. Save the r/w plan sheet file as an exhibit file following the standard naming convention: " _ _ _ _ROEXH001.dgn".
3. Delete all the active elements in the file. You can use the "Fence Delete" command or "Select All" from the "Edit" menu, then delete.
4. Reference the plan sheet file back in. Use the logical name "ropln".

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5. In the Level Display, highlight the SHT reference file.
 6. In the Level Display, change the level filter to "RWEXH". Make sure the SHT reference file is still highlighted. The level filters are located in a drop-down menu in the top portion of the Level Display.
 7. Right-click in the Level Display and select the "All On" command – this will turn on the necessary levels in the SHT file to create a r/w master exhibit.
 8. In the Level Display, use the control key to highlight both the SHT and ROPLN reference files.
 9. In the Level Display, change the level filter to "RWOFF". Make sure both the SHT and ROPLN reference files are still highlighted.
 10. Right-click in the Level Display and select the "All Off" command – this will turn off the necessary levels in the SHT and ROPLN reference files.
 11. Place the exhibit data field cell "EXHDF" from the "RW.CEL" library. Use the upper left corner of the exhibit sheet border to place the cell. This cell will need to be placed for each exhibit sheet matrix.
 12. All levels containing elements not shown on an exhibit will need to be turned off such as construction limits, topography, construction permits and callouts, road approaches, etc. A list of all information that will need to be shown is as follows:
 - a. r/w ID number;
 - b. project control number;
 - c. designation;
 - d. section and quarter sections; US Government Lots, patented mineral survey numbers, Indian and/or tribal allotment numbers; homestead entry survey numbers; certificate of surveys; and lot, block and subdivision text;
 - e. north arrow, township and range;
 - f. Centerline data, which includes highway survey stationing and bearing;
 - g. curve data – simple curve: PI/angle/radius/length/tangent; spiral curve: PI/angle/radius/length/tangent/angle of spiral curve/length of spiral;
 - h. new right-of-way line, including highway survey station breaks with dimensions;
 - i. existing right-of-way or easement lines with width dimensioned;
 - j. railroad right-of-way including width; (railroad centerline should not be shown; railroad stationing only shows on the railroad exhibits, so be sure it is on a level in the strip map file that can be turned off.);
 - k. access control line and symbology, including highway survey station breaks and dimensions; road approach box should be shown on exhibits. (This only applies for access control projects.);
 - l. ownership lines and property boundary symbology; a series of dots along the inside of the property lines;
 - m. parcel numbers;
 - n. section corner ties; text containing XY coordinates or a bearing and distance from a property controlling corner;
 - o. proper exhibit border; and
 - p. waterways, irrigation canals, county road and street names; (occasionally, a lake, river or stream may need to be copied into the active file if the project affects it.)
 13. Reference the area file one (1) time for each sheet matrix used. Use logical names "roare1", "roare2", "roare3". The area files must be positioned and clipped exactly as the other strip maps.
 14. Update the reference file sequence. From the "Reference File" window, select "Settings", "Update Sequence". Choose all area reference files "roare1", "roare2", "roare3" and move them to the beginning to update first.
 15. Turn off all area reference file levels.
 16. Adjust the color overrides to show the area file shading grey scale. Within the "Level Manager" window, change the "Symbology" toggle to "Override". Highlight all area reference files and levels within them. Click in the color column and choose color 252.

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17. To activate the color overrides, choose “Settings”, “View Attributes”. Apply the “Level Symbolology” option.
 18. Repeat one (1) time for each plan sheet file.
 19. Send files to DMS (Document Management System).

22-7.2.8 Parcel Exhibit Files

Final exhibit parcel files showing parcel specific information must be created for each type of acquisition to correspond with the deed/easement form. Process parcel exhibit files as follows:

1. Open the appropriate master exhibit file. Select “File”, “Save As” to save a new file as the parcel exhibit file. There is not a standard naming requirement for the parcel files, however, it is a good idea to use a name similar to your master exhibit file that identifies the type of acquisition if not r/w such as:
” _ _ _ _roexh001_p1.dgn” or “ _ _ _ _roexh001_p1-irease.dgn” for an irrigation easement, etc. See Section 25-3.1 — Saving Deeds and Exhibits for storing the parcel exhibit files.
2. Adjust the area reference file levels to display the appropriate shading.
3. Fill in the proper parcel and sheet numbers in the lower right portion of the exhibit sheet(s) using the “Fill in Single Enter-Data Field” command. Fill in the “Date Prepared” as it applies.
4. Place any additional parcel specific information in this file such as a tract of land description, extra section ties, easement hatching lines, DNRC or Railroad exhibit requirements, etc. See Section 25-1.1 — Parcel Exhibits and/or Section 25-4 — Deed and Exhibit Special Requirements for further explanation.

22-8 R/W ENGLISH LEVELS

22-8.1 R/W Standard Level Naming

R/W has adopted a naming structure for all MicroStation levels used in designing English projects. This naming structure divides levels into three main categories:

E (Existing), P (Proposed), and S (Standard). Each level has a number, as well as a name and description. The various design units at MDT have been assigned banks of level numbers. There is a certain amount of variation among the level naming styles for different design units.

All design elements will be placed on these levels as described below. If you are uncertain which level an element should go on after looking at the level names, check the level description, or use the cross reference showing former metric levels on the ***R/W English Level Assignments*** list.

22-8.2 Temporary Working Levels

Ten levels have been reserved in both the E (Existing) and P (Proposed) categories as backup in case more levels are needed in the future. These levels begin with “E_RW_Temp” (levels 929-938) and “P_RW_Temp” (levels 3042-3051). Standard design elements should not be put on these levels.

22-8.3 Level Filters

Level filters are a group of levels that can be turned on or off together. Level filters have been developed to allow the user to view just the E, P, or S levels, and also to turn on the necessary levels all at once to create a certain type of R/W plan file. There are nine R/W level filters located in a drop-down list in the Level Display. See Figure 22-4.

The levels that are displayed after selecting the filter will depend on which file is highlighted in the Level Display. For example, if you want to view the R/W E-levels, you must have the active file highlighted in the Level Display.

| Level Filter Name | Function |
|-------------------|---|
| RW | Displays all R/W levels |
| RW Existing | Displays all R/W E-levels |
| RW Proposed | Displays all R/W P-levels |
| RW Standard | Displays all R/W S-levels |
| | |
| RWTTL | Builds a Title Sheet |
| RWOWN | Builds an Ownership Sheet |
| RWPLN | Builds a Plan Sheet |
| RWEXH | Builds an Exhibit Sheet |
| RWOFF | Turns off the necessary levels in the SHT file and the R/W plan sheet file to make an exhibit |

See section 22-7 for instructions on using level filters to build R/W plan files.

LEVEL FILTERS
Figure 22-4

22-8.4 E Levels for R/W – Levels 900-942

The E (Existing) levels for R/W are currently assigned to levels 900-942. Elements that are placed on these levels are features that already exist. Some examples of elements that would go on these levels are existing R/W lines, section lines, property lines, etc.

22-8.5 P Levels for R/W – Levels 3000-3052 and 3201-3300

The P (Proposed) levels for R/W are currently assigned to levels 3000-3052 and 3201-3300. Elements that are placed on these levels are features that are being proposed. Some examples of elements that would go on these levels are new R/W lines, new easement lines, construction permit lines, etc. Levels 3201-3300 are reserved for exhibit shading in the Area File; these levels are not parcel-specific.

22-8.6 S Levels for R/W – Levels 10500-10545 and 11001-11029

The S (Standard) levels for R/W are currently assigned to levels 10500-10545 and 11001-11029. They can be thought of as the “behind-the-scenes” levels used to set up R/W-specific sheets. Some examples of elements on these levels are the scales, the “preliminary” stamp, clip boundary lines, etc. Cells automatically go to these levels when they are placed. Levels 11001-11026 are where the elements that make up the data fields go. S-levels have an indicator in the second position of the file name to specify whether the level applies to the bottom sheet, middle sheet, top sheet, or all sheets (BOT, MID, TOP, or ALL). R/W S-levels that are specific to a certain file type have an indicator in the file name to specify which file they are associated with, either TTL, OWN, PLN, or EXH.

22-9 R/W ENGLISH LEVEL ASSIGNMENTS

Frequently used levels are highlighted.

| Level Name | Number | Description | Metric Level |
|----------------------------------|--------|--|--------------|
| E_RW_AccessControl_EX | 900 | RW - EAC - Cell | 42 |
| E_RW_AliquotPart_And_Lot_Call | 901 | RW - QTRCAL/LOTAL - Cell | 19 |
| E_RW_CountyLine_Label | 902 | RW - | 52 |
| E_RW_CountyRd_CityStreet_Name | 903 | RW - | 52 |
| E_RW_EX_RW_And_Ease_Dimension | 904 | RW - | 28 |
| E_RW_EX_RW_And_Ease_Line | 905 | RW - | 30 |
| E_RW_EX_RW_Call_Leader | 906 | RW - OLDES - Cell | 29 |
| E_RW_ForestService_Call | 907 | RW - NFSL - Cell | 24 |
| E_RW_GovernmentLand_Label | 908 | RW - Parks/Military Res/USAF etc - Text | |
| E_RW_IndianAllotmentNumber | 909 | RW - | 51 |
| E_RW_IndianResNameBoundary | 910 | RW - | 51 |
| E_RW_Land_Identifier | 911 | RW - COS No/Subdivision/Lot and Blk No -Text | 45 |
| E_RW_MilitaryResNameBoundary | 912 | RW - | |
| E_RW_Monument_Callout | 913 | RW - STA and Offset for EX RW Monument | |
| E_RW_Monument_Found | 914 | RW - RWMON/RWMONCALC - Cell | 30 |
| E_RW_NonHighwayEase | 915 | RW - Access/Drainage/Irrigation etc - Line | 38 |
| E_RW_NonHighwayEase_Dimension | 916 | RW - Dimension/Label etc | 39 |
| E_RW_North_Arrow | 917 | RW - NAR/NAR180 -Cell | 1 |
| E_RW_Ownership_Dots | 918 | RW - | 34 |
| E_RW_Ownership_Tie | 919 | RW - TIE - Cell | 26 |
| E_RW_Property_Line | 920 | RW - | 34 |
| E_RW_PropertyCorner_Found | 921 | RW - PCF - Cell | 39 |
| E_RW_RR_Name | 922 | RW - | 27 |
| E_RW_RR_RW_Dimension | 923 | RW - | 27 |
| E_RW_RR_RW_Line | 924 | RW - Existing Railroad RW Line | 40 |
| E_RW_RR_Stationing | 925 | RW - | 23 |
| E_RW_Section_Corners | 926 | RW - Section Corner Cells | 16 |
| E_RW_SectionLine_Exterior | 927 | RW - | 16 |
| E_RW_SectionLine_Interior | 928 | RW - | 35 |
| E_RW_Temp_1 | 929 | RW - Working Level | |
| E_RW_Temp_10 | 930 | RW - Working Level | |
| E_RW_Temp_2 | 931 | RW - Working Level | |
| E_RW_Temp_3 | 932 | RW - Working Level | |
| E_RW_Temp_4 | 933 | RW - Working Level | |
| E_RW_Temp_5 | 934 | RW - Working Level | |
| E_RW_Temp_6 | 935 | RW - Working Level | |
| E_RW_Temp_7 | 936 | RW - Working Level | |
| E_RW_Temp_8 | 937 | RW - Working Level | |
| E_RW_Temp_9 | 938 | RW - Working Level | |
| E_RW_TownName | 939 | RW - | 46 |
| E_RW_TownshipRange_Call | 940 | RW - TRCAL - Cell | 17 |
| E_RW_Tract_Of_Land_Desc | 941 | RW - TRACT - Cell | 25 |
| E_RW_WaterwayLabel | 942 | RW - River/Lake/Creek/Canal/Ditch/Coulee -Text | |
| P_RW_AccessControl | 3000 | RW - Various Cells | 43 |
| P_RW_AcquisitionCallout | 3001 | RW - ACQBEG/ACQEND - Cell | 44 |
| P_RW_ASCII_Note | 3003 | RW - CRDGP - Cell | 48 |
| P_RW_CenterlineExtension | 3004 | RW - | 32 |
| P_RW_CenterlineExtension_Text | 3005 | RW - | |
| P_RW_CenterlineSymbol | 3006 | RW - CL - Cell | |
| P_RW_CityLimit_Label | 3007 | RW - | |
| P_RW_CondemnHatching_Acreage | 3008 | RW - | |
| P_RW_CondemnTempEase Callout Dim | 3009 | RW - | |

| | | | |
|--------------------------------------|-------|--|----|
| P_RW_CondemnTempEase_Line | 3010 | RW - | |
| P_RW_ConstPmt_Callout_Dim | 3011 | RW - Various Cells | 37 |
| P_RW_ConstPmt_Line | 3012 | RW - | 36 |
| P_RW_ConstPmt_Note | 3013 | RW - | |
| P_RW_Copied_Final_Alignment | 3014 | RW - Copied from Road Design strip map | 3 |
| P_RW_Copied_Final_Centerline_Text | 3015 | RW - Copied from Road Design strip map | 4 |
| P_RW_Copied_Final_Const_Limits | 3016 | RW - Copied from Road Design strip map | 33 |
| P_RW_Copied_Prelim_Align_And_Text | 3017 | RW - Copied from Road Design strip map | 25 |
| P_RW_Copied_Prelim_Const_Limits | 3018 | RW - Copied from Road Design strip map | 26 |
| P_RW_CrossHatching_IndianLand | 3019 | RW - | 51 |
| P_RW_DNRC_Callout | 3020 | RW - Various Cells | 24 |
| P_RW_ExcessLandShading_Note | 3021 | RW - | |
| P_RW_EXH_Legend_Hatching1 | 3022 | RW - HATCH1 - Cell | |
| P_RW_EXH_Legend_Hatching2 | 3023 | RW - HATCH2 - Cell | |
| P_RW_EXH_Legend_Hatching3 | 3024 | RW - HATCH3 - Cell | |
| P_RW_ForestServiceAdd_Info | 3025 | RW - | 49 |
| P_RW_Hatching_GovtLand | 3026 | RW - | 50 |
| P_RW_New_RW_And_Ease_Callout_And_Dim | 3027 | RW - Various Cells | 32 |
| P_RW_New_RW_And_Ease_Line | 3028 | RW - | 31 |
| P_RW_NonHighwayEase_Dimension | 3029 | RW - Dimension/Label etc | |
| P_RW_NonHighwayEase_Line | 3030 | RW - Access/Drainage/Irrigation etc - Line | |
| P_RW_OmitSheetsNote | 3031 | RW - OMTSHT - Cell | 2 |
| P_RW_OwnershipNotes | 3032 | RW - | |
| P_RW_Parcel_Number | 3033 | RW - PRCL1-PRCL9 - Cell | 25 |
| P_RW_Plus_00_LT_RT | 3034 | RW - PLUSLT/PLUSRT- Cell | 33 |
| P_RW_ProjLocationArrow | 3035 | RW - Copied from Road Design Title Sheet | 1 |
| P_RW_RetraceNote | 3036 | RW - RETRACE - Cell | 21 |
| P_RW_RR_AcquisitionShading | 3037 | RW - Shading for RR exhibits | |
| P_RW_Seal | 3038 | RW - SEAL - Cell | 61 |
| P_RW_Section_Corner_Tie | 3039 | RW - CORTIE - Cell | 15 |
| P_RW_StateLand_Block | 3040 | RW - STBLK - Cell | 24 |
| P_RW_StatePlaneCoord_Note | 3041 | RW - SPCNOTE - Cell | 20 |
| P_RW_Temp_1 | 3042 | RW - Working Level | |
| P_RW_Temp_10 | 3043 | RW - Working Level | |
| P_RW_Temp_2 | 3044 | RW - Working Level | |
| P_RW_Temp_3 | 3045 | RW - Working Level | |
| P_RW_Temp_4 | 3046 | RW - Working Level | |
| P_RW_Temp_5 | 3047 | RW - Working Level | |
| P_RW_Temp_6 | 3048 | RW - Working Level | |
| P_RW_Temp_7 | 3049 | RW - Working Level | |
| P_RW_Temp_8 | 3050 | RW - Working Level | |
| P_RW_Temp_9 | 3051 | RW - Working Level | |
| P_RW_USFS_Signature | 3052 | RW - USFSSIGN - Cell | 63 |
| S_ALL_RW_BackslopeRoundingNote | 10500 | RW - | |
| S_ALL_RW_ConstLimitsNote | 10501 | RW - | |
| S_ALL_RW_DateBlock | 10502 | RW - | |
| S_ALL_RW_DateBlock_Lines | 10503 | RW - | |
| S_ALL_RW_DateBlockFHWA_Text | 10504 | RW - | |
| S_ALL_RW_EXH_Exhibit_Legend | 10505 | RW - | |
| S_ALL_RW_EXH_Exhibit_Text | 10506 | RW - | |
| S_ALL_RW_EXH_ParcelAndSheet | 10507 | RW - | |
| S_ALL_RW_Notes | 10508 | RW - | |
| S_ALL_RW_PLN_7_Lines | 10515 | RW - Ownership Block - Lines 1-7 | |
| S_ALL_RW_PLN_7_Lines_Heading | 10516 | RW - | |
| S_ALL_RW_PLN_ClipBoundary_RD_Plans | 10517 | RW - Orange Boundary | 62 |
| S_ALL_RW_PLN_ClipBoundary_StripMaps | 10518 | RW - Purple Boundary | 63 |
| S_ALL_RW_PLN_SeeSheet_ForOwnership | 10519 | RW - | |
| S_ALL_RW_ProjectBlock | 10520 | RW - | |
| S_ALL_RW_RightOfWay_Text | 10521 | RW - | |
| S ALL RW RW ID Text | 10522 | RW - | |





| | | | |
|--|-------|-------------------------------|--|
| S_ALL_RW_Scale_1_To_100 | 10523 | RW - | |
| S_ALL_RW_Scale_1_To_50 | 10524 | RW - | |
| S_ALL_RW_Scale_Not_To_Scale | 10525 | RW - | |
| S_ALL_RW_ScaleBar | 10526 | RW - | |
| S_ALL_RW_ScaleBlock | 10527 | RW - | |
| S_ALL_RW_ScaleBlock_MDT_Text | 10528 | RW - | |
| S_ALL_RW_ScaleBlock_RW_Plan_Text | 10529 | RW - | |
| S_ALL_RW_Sheet_No_Block | 10530 | RW - | |
| S_ALL_RW_Sheet_No_Text | 10531 | RW - | |
| S_ALL_RW_Stamp_ForAppraisalOnly | 10532 | RW - | |
| S_ALL_RW_Stamp_Preliminary | 10533 | RW - | |
| S_ALL_RW_StateMontana_Text | 10534 | RW - | |
| S_ALL_RW_UPN_Text | 10535 | RW - | |
| S_BOT_RW_TTL_AssocProj_Block | 10536 | RW - | |
| S_BOT_RW_TTL_ClipBoundary_Map | 10537 | RW - | |
| S_BOT_RW_TTL_AccessControlledFacility_Text | 10539 | RW - | |
| S_BOT_RW_TTL_Heading_Proj_Length | 10540 | RW - | |
| S_BOT_RW_TTL_Heading_RW_Plan_Text | 10541 | RW - | |
| S_BOT_RW_TTL_North_Arrow | 10542 | RW - | |
| S_BOT_RW_TTL_Plan_Legend | 10543 | RW - | |
| S_BOT_RW_TTL_Related_Proj_Block | 10544 | RW - | |
| S_BOT_RW_TTL_SeeOwnershipSheet_Text | 10545 | RW - | |
| | | | |
| S_ALL_RW_EXH_DatePreparedRevised_DF | 11001 | RW - EXHDF - Cell | |
| S_ALL_RW_EXH_Legend_Hatching_DF | 11002 | RW - EXHDF - Cell | |
| S_ALL_RW_EXH_ParcelAndSheet_DF | 11003 | RW - EXHDF - Cell | |
| S_ALL_RW_OWN_Chart_DF | 11004 | RW - OWNCHART/OWNFRAME - Cell | |
| S_ALL_RW_OWN_County_DF | 11005 | RW - OWNDF - Cell | |
| S_ALL_RW_OWN_DateBlock_DF | 11006 | RW - OWNDF - Cell | |
| S_ALL_RW_OWN_Inititals_DF | 11008 | RW - OWNDF - Cell | |
| S_ALL_RW_OWN_ProjectBlock_DF | 11009 | RW - OWNDF - Cell | |
| S_ALL_RW_OWN_Sheet_No_DF | 11010 | RW - OWNDF - Cell | |
| S_ALL_RW_PLN_7_Lines_DF | 11011 | RW - PLNDF - Cell | |
| S_ALL_RW_PLN_County_DF | 11012 | RW - PLNDF - Cell | |
| S_ALL_RW_PLN_DateBlock_DF | 11013 | RW - PLNDF - Cell | |
| S_ALL_RW_PLN_Inititals_DF | 11014 | RW - PLNDF - Cell | |
| S_ALL_RW_PLN_ProjectBlock_DF | 11015 | RW - PLNDF - Cell | |
| S_ALL_RW_PLN_SeeSheetForOwnership_DF | 11016 | RW - PLNDF - Cell | |
| S_ALL_RW_PLN_Sheet_No_DF | 11017 | RW - PLNDF - Cell | |
| S_BOT_RW_TTL_AssocProj_Block_DF | 11018 | RW - TTLDF - Cell | |
| S_BOT_RW_TTL_DateBlock_DF | 11019 | RW - TTLDF - Cell | |
| S_BOT_RW_TTL_Heading_Proj_Info_DF | 11020 | RW - TTLDF - Cell | |
| S_BOT_RW_TTL_Heading_Proj_Length_DF | 11021 | RW - TTLDF - Cell | |
| S_BOT_RW_TTL_Inititals_DF | 11022 | RW - TTLDF - Cell | |
| S_BOT_RW_TTL_ProjectBlock_DF | 11023 | RW - TTLDF - Cell | |
| S_BOT_RW_TTL_Related_Proj_Block_DF | 11024 | RW - TTLDF - Cell | |
| S_BOT_RW_TTL_SeeOwnershipSheet_DF | 11025 | RW - TTLDF - Cell | |
| S_BOT_RW_TTL_Sheet_No_DF | 11026 | RW - TTLDF - Cell | |
| S_ALL_RW_OWN_DoubleLines | 11027 | RW - | |
| S_ALL_RW_OWN_Heading | 11028 | RW - | |
| S_ALL_RW_OWN_Lines | 11029 | RW - | |
| | | | |
| P_RW_Exhibit_Shading_1 | 3201 | RW - | |
| P_RW_Exhibit_Shading_2 | 3202 | RW - | |
| P_RW_Exhibit_Shading_3 | 3203 | RW - | |
| P_RW_Exhibit_Shading_4 | 3204 | RW - | |
| P_RW_Exhibit_Shading_5 | 3205 | RW - | |
| P_RW_Exhibit_Shading_6 | 3206 | RW - | |
| P_RW_Exhibit_Shading_7 | 3207 | RW - | |
| P_RW_Exhibit_Shading_8 | 3208 | RW - | |
| P_RW_Exhibit_Shading_9 | 3209 | RW - | |

| | | | |
|-------------------------|------|------|--|
| P_RW_Exhibit_Shading_10 | 3210 | RW - | |
| P_RW_Exhibit_Shading_11 | 3211 | RW - | |
| P_RW_Exhibit_Shading_12 | 3212 | RW - | |
| P_RW_Exhibit_Shading_13 | 3213 | RW - | |
| P_RW_Exhibit_Shading_14 | 3214 | RW - | |
| P_RW_Exhibit_Shading_15 | 3215 | RW - | |
| P_RW_Exhibit_Shading_16 | 3216 | RW - | |
| P_RW_Exhibit_Shading_17 | 3217 | RW - | |
| P_RW_Exhibit_Shading_18 | 3218 | RW - | |
| P_RW_Exhibit_Shading_19 | 3219 | RW - | |
| P_RW_Exhibit_Shading_20 | 3220 | RW - | |
| P_RW_Exhibit_Shading_21 | 3221 | RW - | |
| P_RW_Exhibit_Shading_22 | 3222 | RW - | |
| P_RW_Exhibit_Shading_23 | 3223 | RW - | |
| P_RW_Exhibit_Shading_24 | 3224 | RW - | |
| P_RW_Exhibit_Shading_25 | 3225 | RW - | |
| P_RW_Exhibit_Shading_26 | 3226 | RW - | |
| P_RW_Exhibit_Shading_27 | 3227 | RW - | |
| P_RW_Exhibit_Shading_28 | 3228 | RW - | |
| P_RW_Exhibit_Shading_29 | 3229 | RW - | |
| P_RW_Exhibit_Shading_30 | 3230 | RW - | |
| P_RW_Exhibit_Shading_31 | 3231 | RW - | |
| P_RW_Exhibit_Shading_32 | 3232 | RW - | |
| P_RW_Exhibit_Shading_33 | 3233 | RW - | |
| P_RW_Exhibit_Shading_34 | 3234 | RW - | |
| P_RW_Exhibit_Shading_35 | 3235 | RW - | |
| P_RW_Exhibit_Shading_36 | 3236 | RW - | |
| P_RW_Exhibit_Shading_37 | 3237 | RW - | |
| P_RW_Exhibit_Shading_38 | 3238 | RW - | |
| P_RW_Exhibit_Shading_39 | 3239 | RW - | |
| P_RW_Exhibit_Shading_40 | 3240 | RW - | |
| P_RW_Exhibit_Shading_41 | 3241 | RW - | |
| P_RW_Exhibit_Shading_42 | 3242 | RW - | |
| P_RW_Exhibit_Shading_43 | 3243 | RW - | |
| P_RW_Exhibit_Shading_44 | 3244 | RW - | |
| P_RW_Exhibit_Shading_45 | 3245 | RW - | |
| P_RW_Exhibit_Shading_46 | 3246 | RW - | |
| P_RW_Exhibit_Shading_47 | 3247 | RW - | |
| P_RW_Exhibit_Shading_48 | 3248 | RW - | |
| P_RW_Exhibit_Shading_49 | 3249 | RW - | |
| P_RW_Exhibit_Shading_50 | 3250 | RW - | |
| P_RW_Exhibit_Shading_51 | 3251 | RW - | |
| P_RW_Exhibit_Shading_52 | 3252 | RW - | |
| P_RW_Exhibit_Shading_53 | 3253 | RW - | |
| P_RW_Exhibit_Shading_54 | 3254 | RW - | |
| P_RW_Exhibit_Shading_55 | 3255 | RW - | |
| P_RW_Exhibit_Shading_56 | 3256 | RW - | |
| P_RW_Exhibit_Shading_57 | 3257 | RW - | |
| P_RW_Exhibit_Shading_58 | 3258 | RW - | |
| P_RW_Exhibit_Shading_59 | 3259 | RW - | |
| P_RW_Exhibit_Shading_60 | 3260 | RW - | |
| P_RW_Exhibit_Shading_61 | 3261 | RW - | |
| P_RW_Exhibit_Shading_62 | 3262 | RW - | |
| P_RW_Exhibit_Shading_63 | 3263 | RW - | |
| P_RW_Exhibit_Shading_64 | 3264 | RW - | |
| P_RW_Exhibit_Shading_65 | 3265 | RW - | |
| P_RW_Exhibit_Shading_66 | 3266 | RW - | |
| P_RW_Exhibit_Shading_67 | 3267 | RW - | |
| P_RW_Exhibit_Shading_68 | 3268 | RW - | |
| P_RW_Exhibit_Shading_69 | 3269 | RW - | |
| P_RW_Exhibit_Shading_70 | 3270 | RW - | |

| | | | |
|--------------------------|------|------|--|
| P_RW_Exhibit_Shading_71 | 3271 | RW - | |
| P_RW_Exhibit_Shading_72 | 3272 | RW - | |
| P_RW_Exhibit_Shading_73 | 3273 | RW - | |
| P_RW_Exhibit_Shading_74 | 3274 | RW - | |
| P_RW_Exhibit_Shading_75 | 3275 | RW - | |
| P_RW_Exhibit_Shading_76 | 3276 | RW - | |
| P_RW_Exhibit_Shading_77 | 3277 | RW - | |
| P_RW_Exhibit_Shading_78 | 3278 | RW - | |
| P_RW_Exhibit_Shading_79 | 3279 | RW - | |
| P_RW_Exhibit_Shading_80 | 3280 | RW - | |
| P_RW_Exhibit_Shading_81 | 3281 | RW - | |
| P_RW_Exhibit_Shading_82 | 3282 | RW - | |
| P_RW_Exhibit_Shading_83 | 3283 | RW - | |
| P_RW_Exhibit_Shading_84 | 3284 | RW - | |
| P_RW_Exhibit_Shading_85 | 3285 | RW - | |
| P_RW_Exhibit_Shading_86 | 3286 | RW - | |
| P_RW_Exhibit_Shading_87 | 3287 | RW - | |
| P_RW_Exhibit_Shading_88 | 3288 | RW - | |
| P_RW_Exhibit_Shading_89 | 3289 | RW - | |
| P_RW_Exhibit_Shading_90 | 3290 | RW - | |
| P_RW_Exhibit_Shading_91 | 3291 | RW - | |
| P_RW_Exhibit_Shading_92 | 3292 | RW - | |
| P_RW_Exhibit_Shading_93 | 3293 | RW - | |
| P_RW_Exhibit_Shading_94 | 3294 | RW - | |
| P_RW_Exhibit_Shading_95 | 3295 | RW - | |
| P_RW_Exhibit_Shading_96 | 3296 | RW - | |
| P_RW_Exhibit_Shading_97 | 3297 | RW - | |
| P_RW_Exhibit_Shading_98 | 3298 | RW - | |
| P_RW_Exhibit_Shading_99 | 3299 | RW - | |
| P_RW_Exhibit_Shading_100 | 3300 | RW - | |

22-10 R/W ENGLISH CELL LIBRARY




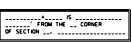
See Figure 22-5

| RW/CEL RW English Cell Library | |
|--|---|
| <p>Cell Name: ACAMEND Description: AMENDED_ACCESS_RES_NOTE Level: P_R/W_AccessControl (0000)</p> <p>AMENDED ACCESS CONTROL RESOLUTION IS REQUIRED OFFICIAL RECORDS OF COUNTY, MISSISSAUGA.</p> | <p>Cell Name: ACNOTE Description: ACCESS_RES_NOTE Level: P_R/W_AccessControl (0000)</p> <p>ACCESS CONTROL RESOLUTION IS REQUIRED OFFICIAL RECORDS OF COUNTY, MISSISSAUGA.</p> |
| <p>Cell Name: ACQIBEG Description: BEGIN_ACQUISITION Level: P_R/W_AcquisitionControl (0001)</p> <p>BEG. ACQUISITION ----</p> | <p>Cell Name: ACQEND Description: END_ACQUISITION Level: P_R/W_AcquisitionControl (0001)</p> <p>END ACQUISITION ----</p> |
| <p>Cell Name: APPBLK Description: APPLICATION_BLOCK Level: P_R/W_AccessControl (0000)</p>  | <p>Cell Name: ARW Description: LINE_TERMINATION Level: Same as the entire sheet</p>  |
| <p>Cell Name: CCF Description: CLOSING_CORNER_FOUND Level: E_R/W_Section_Corners (000)</p>  | <p>Cell Name: CCNF Description: UNFOUNDED_CLOSING_CORNER Level: E_R/W_Section_Corners (000)</p>  |

Revised 4-18-08

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RW/ENGLISH

| RW/CEL RW English Cell Library | |
|--|---|
| <p>Cell Name: CL Description: CENTER_LINE_SYMBOL Level: P_R/W_CenterlineSymbol (0000)</p>  | <p>Cell Name: CNTRP Description: CENTER_OF_SECTION_FOUND Level: E_R/W_Section_Corners (000)</p>  |
| <p>Cell Name: CNTRFP Description: UNFOUNDED_CENTER_OF_SECTION Level: E_R/W_Section_Corners (000)</p>  | <p>Cell Name: CNTRTE Description: SECTION_CORNER_TIE Level: P_R/W_Section_Corner_Tie (0000)</p>  |
| <p>Cell Name: CPBEG Description: MBEG_CONFT_PMT_CALL Level: P_R/W_Conforming_Called_Out (0011)</p> <p>BEG. ---' CONST. PMT.</p> | <p>Cell Name: CPBEG Description: MBEG_CONFT_PMT_CALL Level: P_R/W_Conforming_Called_Out (0011)</p> <p>BEG. ---' CONST. PMT.</p> |
| <p>Cell Name: CPBEG Description: MBEG_CONFT_PMT_CALL Level: P_R/W_Conforming_Called_Out (0011)</p> <p>BEG. ---' CONST. PMT.</p> | <p>Cell Name: CPBEG Description: MBEG_CONFT_PMT_CALL Level: P_R/W_Conforming_Called_Out (0011)</p> <p>BEG. ---' CONST. PMT.</p> |

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RW/ENGLISH

| RW/CEL RW English Cell Library | |
|---|--|
| <p>Cell Name: CPBEG Description: MBEG_CONFT_PMT_CALL Level: P_R/W_Conforming_Called_Out (0011)</p> <p>END ---' CONST. PMT.</p> | <p>Cell Name: CPBEG Description: MBEG_CONFT_PMT_CALL Level: P_R/W_Conforming_Called_Out (0011)</p> <p>END ---' CONST. PMT.</p> |
| <p>Cell Name: CROSPK Description: ASCE NOTE Level: P_R/W_ASCE_Note (0000)</p> <p>RIGHT-OF-WAY COORDINATE EACH FILE R/W BEG. CORNER ALL L&S ARE LOCATED ON THE CAD SERVER IN THE 3D DIRECTORY, UNDER PROJECT</p> | <p>Cell Name: DNRCBL Description: MBEG_DNRC_CALL_LT Level: P_R/W_DNRC_Called_Out (0000)</p> <p>BEG. DNRC PARCEL</p> |
| <p>Cell Name: DNRCBR Description: MBEG_DNRC_CALL_RT Level: P_R/W_DNRC_Called_Out (0000)</p> <p>BEG. DNRC PARCEL</p> | <p>Cell Name: DNRCBL Description: MBEG_DNRC_CALL_LT Level: P_R/W_DNRC_Called_Out (0000)</p> <p>END DNRC PARCEL</p> |
| <p>Cell Name: DNRCBR Description: MBEG_DNRC_CALL_RT Level: P_R/W_DNRC_Called_Out (0000)</p> <p>END DNRC PARCEL</p> | <p>Cell Name: DNRCBL Description: MBEG_DNRC_CALL_LT Level: P_R/W_DNRC_Called_Out (0000)</p> <p>END DNRC PARCEL</p> |

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





RW/ENGLISH

| RW/CEL RW English Cell Library | |
|---|---|
| <p>Cell Name: EASBEG Description: MBEG_NEW_EASE_CALL Level: P_R/W_New_R/W_Area_Called_Out_And_Dim (0027)</p> <p>BEG. ---' EASE.</p> | <p>Cell Name: EASEBL Description: MBEG_EASE_LT Level: P_R/W_New_R/W_Area_Called_Out_And_Dim (0027)</p> <p>BEG. ---' EASE.</p> |
| <p>Cell Name: EASBEG Description: MBEG_NEW_EASE_CALL Level: P_R/W_New_R/W_Area_Called_Out_And_Dim (0027)</p> <p>BEG. ---' EASE.</p> | <p>Cell Name: EASEBL Description: MBEG_EASE_LT Level: P_R/W_New_R/W_Area_Called_Out_And_Dim (0027)</p> <p>END ---' EASE.</p> |
| <p>Cell Name: EASBEG Description: MBEG_NEW_EASE_CALL Level: P_R/W_New_R/W_Area_Called_Out_And_Dim (0027)</p> <p>END ---' EASE.</p> | <p>Cell Name: EASEBL Description: MBEG_EASE_LT Level: P_R/W_New_R/W_Area_Called_Out_And_Dim (0027)</p> <p>END ---' EASE.</p> |
| <p>Cell Name: EOCDF Description: EOCDF_SHEET_DATA_FIELDS Level: Various</p>  | <p>Cell Name: PAC Description: FULL_ACCESS_CONTROL Level: P_R/W_AccessControl (0000)</p> <p>AC</p> |

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
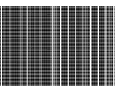


RW/ENGLISH

| RW/CEL RW English Cell Library | |
|---|---|
| <p>Cell Name: HATCH1 Description: EOCDF_LEGEND_HATCHING_1 Level: P_R/W_EOCDF_Legend_Hatching (0000)</p>  | <p>Cell Name: HATCH2 Description: EOCDF_LEGEND_HATCHING_2 Level: P_R/W_EOCDF_Legend_Hatching (0000)</p>  |
| <p>Cell Name: HATCH3 Description: EOCDF_LEGEND_HATCHING_3 Level: P_R/W_EOCDF_Legend_Hatching (0000)</p>  | <p>Cell Name: LAC Description: LIMITED_ACCESS_CONTROL Level: P_R/W_AccessControl (0000)</p> <p>///</p> |
| <p>Cell Name: LOTCAL Description: U.S. GOVT. LOT Level: E_R/W_Acquisition_And_L&S_Call (001)</p> <p>U. S. GOVT. LOT SEC. ---</p> | <p>Cell Name: MCF Description: MEANDER_CORNER_FOUND Level: E_R/W_Section_Corners (000)</p>  |
| <p>Cell Name: MCFP Description: UNFOUNDED_MEANDER_CORNER Level: E_R/W_Section_Corners (000)</p>  | <p>Cell Name: NAR Description: RW_NORTH_ARROW Level: E_R/W_North_Arrow (017)</p>  |

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






RW/ENGLISH

| RW/CEL RW English Cell Library | |
|--|--|
| <p>Cell Name: NAR180 Description: RW_NORTH_ARROW_180 Level: E_R/W_North_Arrow (017)</p>  | <p>Cell Name: NFSL Description: NATL_FORSSET_SYSTEM_LAND Level: E_R/W_ForestrySystem_Call (0017)</p> <p>NFSL</p> |
| <p>Cell Name: OLBEG Description: EX_RW_CALL_AND_LEADERS Level: E_R/W_EOCDF_Call_Leader (000)</p>  | <p>Cell Name: OMTBHT Description: OMT_SHEETS_NOTE Level: P_R/W_OntarioMunicipality (0001)</p> <p>NOTE FOR THE PURPOSE OF THIS PROJECT, THE FOLLOWING SHEETS ARE SHOWN IN THE PROJECT</p> |
| <p>Cell Name: OVRCHART Description: OVRCHART_CHART_DATA_FIELDS Level: E_R/W_OVRCHART_Chart_Data (1000)</p>  | <p>Cell Name: OWNDF Description: OWNERSHIP_SHEET_DATA_FIELDS Level: Various</p>  |
| <p>Cell Name: PCF Description: PROPERTY_CORNER_FOUND Level: E_R/W_PropertyCorner_Found (001)</p>  | <p>Cell Name: PL Description: OLD_PROP_LINE_SYMBOL Level: E_R/W_PropLine_Symbol (0018)</p> <p>PL</p> |

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




RW/ENGLISH

| RW/CBL RW English Cell Library | |
|---|---|
| Cell Name: PLUSP Description: PLAN_SHEET_DATA_FIELDS Level: Various  | Cell Name: PLUSLT Description: PLUS_00_LT Level: P_RW_Parcel_Number (2034)  |
| Cell Name: PLUSRT Description: PLUS_00_RT Level: P_RW_Parcel_Number (2034)  | Cell Name: PRCL1 Description: PRCL1_1 Level: P_RW_Parcel_Number (2035)  |
| Cell Name: PRCL3 Description: PRCL3_3 Level: P_RW_Parcel_Number (2035)  | Cell Name: PRCL3 Description: PRCL3_3 Level: P_RW_Parcel_Number (2035)  |
| Cell Name: PRCL4 Description: PRCL4_4 Level: P_RW_Parcel_Number (2035)  | Cell Name: PRCL5 Description: PRCL5_5 Level: P_RW_Parcel_Number (2035)  |

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





RAW ENGLISH

| RW/CBL RW English Cell Library | |
|--|--|
| Cell Name: PRCL6 Description: PRCL6_6 Level: P_RW_Parcel_Number (2035)  | Cell Name: PRCL7 Description: PRCL7_7 Level: P_RW_Parcel_Number (2035)  |
| Cell Name: PRCL8 Description: PRCL8_8 Level: P_RW_Parcel_Number (2035)  | Cell Name: PRCL8 Description: PRCL8_8 Level: P_RW_Parcel_Number (2035)  |
| Cell Name: QCCF Description: CLOSING_CTRCOR_FOUND Level: E_RW_Section_Corners (205)  | Cell Name: QCCF Description: UNFOUND_CLOSING_CTRCOR Level: E_RW_Section_Corners (205)  |
| Cell Name: QCF Description: QUARTER_CORNER_FOUND Level: E_RW_Section_Corners (205)  | Cell Name: QCF Description: UNFOUND_QUARTER_CORNER Level: E_RW_Section_Corners (205)  |

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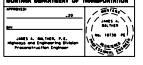

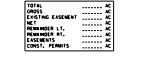

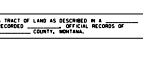

RAW ENGLISH

| RW/CBL RW English Cell Library | |
|---|---|
| Cell Name: CTRCAL Description: SIXTEENTH_SECTION_CALL Level: E_RW_AltitudeAndLotCall (201)  | Cell Name: RETRACE Description: E_RW_RETRACE_NOTE Level: P_RW_RestorationNote (2038)  |
| Cell Name: RMLCAL Description: NEW_RW_STA_BREAK_LT Level: P_RW_New_RW_Area_Scale_CalledAndDim (2027)  | Cell Name: RMLCAL Description: NEW_RW_STA_BREAK_LT Level: P_RW_New_RW_Area_Scale_CalledAndDim (2027)  |
| Cell Name: RMLCAL Description: NEW_RW_STA_BREAK_RT Level: P_RW_New_RW_Area_Scale_CalledAndDim (2027)  | Cell Name: RMLCAL Description: NEW_RW_STA_BREAK_RT Level: P_RW_New_RW_Area_Scale_CalledAndDim (2027)  |

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
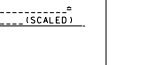



RAW ENGLISH

| RW/CBL RW English Cell Library | |
|---|--|
| Cell Name: SCF Description: SECTION_CORNER_FOUND Level: E_RW_Section_Corners (205)  | Cell Name: SCF Description: UNFOUND_SECTION_CORNER Level: E_RW_Section_Corners (205)  |
| Cell Name: SEAL Description: JAMES A. WALKER Level: P_RW_Seal (2036)  | Cell Name: SPCHOTE Description: STATE_PLANE_COORD_NOTE Level: P_RW_StatePlaneCoordNote (2041)  |
| Cell Name: STBLK Description: STATE_LAND_BLOCK Level: P_RW_StateLand_Block (2042)  | Cell Name: TIS Description: TOWNSHIP_TIE Level: E_RW_TownshipTie (2043)  |
| Cell Name: TRACT Description: TRACT_OF_LAND_BLOCK Level: E_RW_TractOfLand_Block (2044)  | Cell Name: TRCAL Description: TOWNSHIP_AND_RANGE_CALL Level: E_RW_TownshipRange_Call (2045)  |

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RAW ENGLISH

| RW/CBL RW English Cell Library | |
|---|---|
| Cell Name: TLLF Description: TITLE_SHEET_DATA_FIELDS Level: Various  | Cell Name: USFSIGN Description: USFS_SIGNER_SIGN Level: P_RW_USFS_Signature (2052)  |
| Cell Name: OWNFRAME Description: OWNERSHIP_FRAME Level: Various  | Cell Name: RRTILT Description: RW_HVY_STA_TIE_LT Level: P_RW_New_RW_Area_Scale_CalledAndDim (2027)  |
| Cell Name: RRTILT Description: RW_HVY_STA_TIE_RT Level: P_RW_New_RW_Area_Scale_CalledAndDim (2027)  | Cell Name: RWMONCALC Description: CALCULATED_POINT Level: E_RW_Monument_Found (2046)  |
| Cell Name: Description: Level:  | Cell Name: Description: Level:  |

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RAW ENGLISH

22-11 ENGLISH STANDARD ELEMENT NAME REFERENCE

[illegible]

ENGLISH STANDARD

[illegible]

ENGLISH STANDARD

ORIGIN EXHIBIT

UPN PROJECT BLOCK R/W SHEET NO.

LEVEL LIST FOR EXH FILE:

SHT: 10001, 10008-10012,
10017-10023, 10505-10508,
10520-10523, 10526-10528,
10530, 10531, 10534, 10535
ACTIVE: 3022-3024, 11001-11003,
11012, 11014, 11015

SHEET NUMBER EXHIBIT TEXT SHEET INFO

SHEET BORDER LEGEND HATCHING AND DF

DATE PREPARED AND REVISED

PARCEL AND SHEET EXHIBIT TEXT

THIS PLAN IS PREPARED FOR THE MONTANA DEPARTMENT OF TRANSPORTATION BY THE OFFICE OF THE COUNTY ENGINEER AND RECORDS. NOTES: 1. THE PROPOSED R/W IS BASED ON A CORNER SURVEY. 2. ALL STATIONING REFERS TO THE R/W BEGINNING AND IS REFERENCED TO THE R/W BEGINNING.

STATE MONTANA COUNTY OF DEER CREEK SHEET NO. 10001 PROJECT NO. 10001

DATE PREPARED DATE REVISED

PARCEL SHEET OF RIGHT OF WAY EXHIBIT

SCALE 1"=100'

ENGLISH STANDARD

ORIGIN EXHIBIT

UPN PROJECT BLOCK R/W SHEET NO.

LEVEL LIST FOR PLN FILE:

SHT: 10001, 10008-10012,
10017-10023, 10500-10504,
10508, 10517-10535, (10515, 10516)
ACTIVE: 11011-11017

SHEET NUMBER EXHIBIT TEXT SHEET INFO

SHEET BORDER LEGEND HATCHING AND DF

DATE PREPARED AND REVISED

PARCEL AND SHEET EXHIBIT TEXT

THIS PLAN IS PREPARED FOR THE MONTANA DEPARTMENT OF TRANSPORTATION BY THE OFFICE OF THE COUNTY ENGINEER AND RECORDS. NOTES: 1. THE PROPOSED R/W IS BASED ON A CORNER SURVEY. 2. ALL STATIONING REFERS TO THE R/W BEGINNING AND IS REFERENCED TO THE R/W BEGINNING.

STATE MONTANA COUNTY OF DEER CREEK SHEET NO. 10001 PROJECT NO. 10001

DATE PREPARED DATE REVISED

PARCEL SHEET OF RIGHT OF WAY EXHIBIT

SCALE 1"=100'

ENGLISH STANDARD

OLD

23-3 EXISTING R/W AND/OR EASEMENT (ACTIVITY 818)

(Paragraph 4)

When placement of existing right-of-way is complete, Road Design is to be notified by email or memo.

NEW

23-3 EXISTING R/W AND/OR EASEMENT (ACTIVITY 818)

(Paragraph 4)

When placement of existing right-of-way is complete, Road Design is to be notified by email or memo.

R/W Design Supervisors shall also be notified and provided information as requested for a preliminary review of plans and file development.

NEW

23-4 PROPERTY IDENTIFICATION

(Paragraph 2)

Montana Cadastral Mapping has a website available that has become useful. However, it's advised that it be used only as a tool for aiding in any property identification. The information from this site will not be accepted as a replacement for placing legal descriptions or as a substitute for search of appropriate filed records at the Clerk & Records office. This site can be found at <http://gis.mt.gov>.

OLD

23-4.3.2 Areas

(Paragraph 1. Total Areas)

1. Total Areas. Total areas for each ownership contiguous to the highway will be shown on the plans. The area of an ownership is included in the ownership report. MDT uses the total area as obtained from the County Assessor. Environmental Services has to know how much land is held by a particular owner to determine if the project's impact is significant or not. Total areas are also used by Right-of-Way Agents when they appraise property. If the total area is equal or greater than 160 acres, it is shown on the ownership sheet as 64.750+ ha, 160.00+ AC.
2. Acquisition Areas. See Section 22-1.2.5 to create and calculate areas. The existing area plus the net area should equal the gross.

NEW

23-4.3.2 Areas

(Paragraph 1. Total Areas)

1. Total Areas. Environmental Services has to know how much land is held by a particular owner to determine if the project's impact is significant or not. Total areas are also used by Right-of-Way Agents when they appraise property.

If the total area is less than 160 acres and we have a COS, deed or subdivision plat that defines the area, it shall be shown. Otherwise, a total area supplied by the R/W Agent from the County Assessor is used. If the total area is equal or greater than 160 acres, it is shown on the ownership sheet as 64.750+ ha, 160.00+ AC.
2. Acquisition Areas. See Section 22-1.2.5 to create and calculate areas. The existing area plus the net area should equal the gross.
3. Remainder Areas. When the total area is defined by a COS, deed or subdivision plat, a remainder area shall be shown on the plans.

23-5 OBTAIN TITLE COMMITMENTS (ACTIVITY 808)

(Paragraph 6)

**Note: Quit Claim deeds are only sufficient when coupled with Title Insurance. If a Quit Claim deed is the last deed of record, it is required that the prior vesting deed that transferred title to the grantor be supplied to ensure equitable title is being conveyed by the Quit Claim deed.*

DELETED OLD**23-5.3 Reviewing Completed Title Commitments**

**Note: Quit Claim deeds are not sufficient. If a Quit Claim deed is the last deed of record, it is required that the prior vesting deed that transferred title to the grantor be supplied to ensure equitable title is being conveyed by the Quit Claim deed.*

OLD**23-6.2.1 Standard R/W Widths**

| Facility Type | Preferred R/W Width ① | |
|------------------------|-----------------------|------|
| | (ft) | (m) |
| Interstate (I, IG, IM) | | |
| no frontage road | 80 | 25 |
| frontage road | 60 | 20 |
| National Highway (NH) | 80 | 25 |
| Primary Highway (F) | 80 | 25 |
| Secondary Highway (S) | 60 | 20 |
| County Roads | 30 | 9.14 |
| Urban Streets | ② | |
| Sidewalks | ③ | |

NEW**23-6.2.1 Standard R/W Widths**

| Facility Type | Preferred R/W Width ① | |
|------------------------|-----------------------|------|
| | (ft) | (m) |
| Interstate (I, IG, IM) | | |
| no frontage road | 80 | 25 |
| frontage road | 65 | 20 |
| National Highway (NH) | 80 | 25 |
| Primary Highway (F) | 80 | 25 |
| Secondary Highway (S) | 65 | 20 |
| County Roads | 30 | 9.14 |
| Urban Streets | ② | |
| Sidewalks | ③ | |

OLD

23-8.3 Railroad

When designing right-of-way that extends onto railroad property, the following parameters must be observed:

NEW

23-8.3 Railroad

Ownership Sheet. The 'Ex. Ease. Area' shall not be identified for Railroad parcels in the ownership block

R/W Design. When designing right-of-way that extends onto railroad property, the following parameters must be observed:

OLD

25-3.2 Distributing Deeds and Exhibits

| | | |
|------------------------|-----------|--------------------|
| Missoula (District 1): | Deeds: | "\\MISNT1\\mis6pr" |
| | Exhibits: | "\\MISNT1\\mis0pl" |

NEW

25-3.2 Distributing Deeds and Exhibits

| | | |
|------------------------|-----------|--------------------|
| Missoula (District 1): | Deeds: | "\\MISNT1\\mis8pr" |
| | Exhibits: | "\\MISNT1\\mis0pl" |

OLD

25-4.2 Railroad Parcels

- a. R/W Acquisition. The r/w acquisition should be shaded. The shading is prepared in the area file and referenced.

NEW

25-4.2 Railroad Parcels

- a. R/W Acquisition. Only new r/w acquisition should be shaded. The shading is prepared in the area file and referenced.

OLD

23-4-1-1 Legal Descriptions

(Paragraph 3.a.Overlaps)

- Overlaps. Consider junior-senior rights and look at the dates of the conveyances. Identify the overlap. In such cases, we do not decide who owns what.

NEW

23-4-1-1 Legal Descriptions

(Paragraph 3.a.Overlaps)

- Overlaps. Consider junior-senior rights and look at the dates of the conveyances. Identify the overlap. In such cases, we do not **generally** decide who owns what.

OLD

23-7.2 Approaches, Access Roads and Frontage Roads

(Paragraph 2.Private Approach)

2. Private Approach. An approach allowing access, by one or more persons, to a limited access control facility from private property, rather than a dedicated public roadway.

For access control purposes, private approaches are further defined to differentiate between residential and commercial as follows:

- a. Residential. An approach that allows access to and/or from a residential property.
- b. Commercial. An approach that allows access to and/or from a commercial or industrial property.

NEW

23-7.2 Approaches, Access Roads and Frontage Roads

(Paragraph 2.Private Approach)

2. Private Approach. An approach allowing access, by one or more persons, to a limited access control facility from private property, rather than a dedicated public roadway. **Can be used for residential, commercial or industrial purposes.**

23-7.2.1 Approach Frame

All approaches, except those approaches designed from a frontage road, are further identified individually within an approach frame placed on each plan sheet showing an approach (cell "APPFR2"). The parcels served, number of approaches, left or right to designate the appropriate side, station and type of each approach should be defined. Special notes can be placed to the side of the frame. An example approach frame is shown in Figure 23-10.

| ROAD APPROACHES | | | | | | |
|-----------------|------|------------|-------------|------------|--------|---------|
| PARCELS SERVED | SIDE | PRIVATE | | | | STATION |
| | | FARM FIELD | RESIDENTIAL | COMMERCIAL | PUBLIC | |
| | | (1), (2) | (2) | (2) | SIDE | |
| ** 3-7 | RT | | | 12+82 | | |
| ** 3-8 | RT | | | 12+82 | | |
| 3-9 | RT | | | 13+25 | | |
| | | | | | | |
| | | | | | | |

** JOINT USE COMMERCIAL APPROACH

(1) FARM FIELD APPROACH OF AGRICULTURAL USE ONLY.
(2) ROAD APPROACH LOCATIONS FIXED

APPROACH FRAME

Figure 23-10

NEW

23-7.2.1 Approach Frame

All approaches, except those approaches designed from a frontage road, are further identified individually within an approach frame placed on each plan sheet showing an approach (cell "APPFR2"). The parcels served, number of approaches, left or right to designate the appropriate side, station and type of each approach should be defined. Special notes can be placed to the side of the frame. An example approach frame is shown in Figure 23-10.

Approach stations called out in the Road Approach frame should be consistent with the approach stations shown on the construction plans.

| ROAD APPROACHES | | | | | | (1) FARM FIELD APPROACH FOR AGRICULTURAL USE ONLY |
|-----------------|------|------------|---------|--------|---------|---|
| PARCELS SERVED | SIDE | FARM FIELD | PRIVATE | PUBLIC | | (2) ROAD APPROACH LOCATIONS FIXED |
| | | (1), (2) | (2) | SIDE | STATION | * JOINT USE WITH OTHER PARCEL AT SAME STATION |
| | | STATION | STATION | | | |
| ** 3-7 | BI | ----- | 12+82 | -- | ----- | |
| ** 3-8 | BI | ----- | 12+82 | -- | ----- | |
| 3-9 | BI | ----- | 13+25 | -- | ----- | |
| ----- | -- | ----- | ----- | -- | ----- | |
| ----- | -- | ----- | ----- | -- | ----- | |
| ----- | -- | ----- | ----- | -- | ----- | |
| ----- | -- | ----- | ----- | -- | ----- | |
| ----- | -- | ----- | ----- | -- | ----- | |

** JOINT USE APPROACH

APPROACH FRAME

Figure 23-10